

Comparisons of Job Characteristics

Focus Occupation: Biological Technicians (19-4021)

Associated Occupation: Foresters (19-1032)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Biological Technicians (19-4021)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Biology	3.7	12.8	18.9	>> Current knowledge level is likely more than sufficient
Geography	3.9	9.0	2.5	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Biological Technicians (19-4021)

Associated Occupation: Foresters (19-1032)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Monitoring	9.9	16.7	9.9	<< Extensive development of skills in this area may be required
Coordination	9.1	15.4	7.9	<< Extensive development of skills in this area may be required
Judgment and Decision Making	9.4	15.1	10.1	<< Extensive development of skills in this area may be required
Systems Analysis	6.5	14.6	8.3	<< Extensive development of skills in this area may be required
Complex Problem Solving	9.1	14.5	10.5	<< Extensive development of skills in this area may be required
Systems Evaluation	6.4	12.6	7.2	<< Extensive development of skills in this area may be required
Time Management	8.9	12.5	8.4	<< Extensive development of skills in this area may be required

Negotiation	6.8	11.9	3.7	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	11.8	4.7	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	7.5	4.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 82			
Focus Occupation: Biological Technicians (19-4021) Associated Occupation: Foresters (19-1032)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Problem Sensitivity	11.1	14.8	11.3	<<	Extensive improvement in abilities may be required
Category Flexibility	9.0	13.0	11.5	<	Some improvement in abilities may be required
Originality	7.6	12.6	9.1	<<	Extensive improvement in abilities may be required
Time Sharing	6.6	8.4	5.1	<<	Extensive improvement in abilities may be required
Spatial Orientation	2.7	8.3	1.2	<<	Extensive improvement in abilities may be required
Dynamic Strength	3.5	6.6	2.8	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 73
Focus Occupation: Biological Technicians (19-4021) Associated Occupation: Foresters (19-1032)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Analyze biological research, test, or analysis data	70	
Analyze scientific research data or investigative findings	27	
Collect scientific or technical data	30	
Collect statistical data	47	
Communicate technical information	4	
Conduct field research or investigative studies	52	
Develop or maintain databases	30	
Develop tables depicting data	33	
Direct and coordinate activities of workers or staff	3	

Explain complex mathematical information	30
Perform statistical analysis	71
Prepare reports	8
Prepare technical reports or related documentation	22
Recognize plant diseases	72
Recognize tree or forest plant species	78
Record test results, test procedures, or inspection data	48
Use biological research techniques	68
Use computers to enter, access or retrieve data	3
Use knowledge of investigation techniques	16
Use mathematical or statistical methods to identify or analyze problems	30
Use quantitative research methods	35
Use relational database software	26
Use scientific research methodology	21
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Biological Technicians (19-4021)
Associated Occupation: Foresters (19-1032)

Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.